

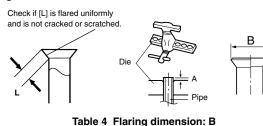
2 **CONNECTING THE PIPING**

The maximum lengths of this product are shown in Table 2 in outdoor unit's installation inspection sheet. If the units are further apart than this, correct operation can not be guaranteed.

1. FLARING

- (1) Cut the connection pipe to the necessary length with a pipe cutter. (2) Hold the pipe downward so that cuttings will not enter the pipe and remove the burrs.
- (3) Insert the flare nut (always use the flare nut attached to the indoor and outdoor units respectively) onto the pipe and perform the flare processing with a flare tool. Use the special R410A flare tool, or the conventional flare tool.

Fig. 24



e B ⁺⁰ _{-0.4} (mm)	Pipe outside diameter
in.) 9.1	6.35 mm (1/4 in.)
in.) 13.2	9.52 mm (3/8 in.)
in.) 16.6	12.7 mm (1/2 in.)
in.) 19.7	15.88 mm (5/8 in.)
in.) 16.6	12.7 mm (1/2 in.)

When using conventional flare tools to flare R410A pipes, the dimension A should be approximately 0.5 mm more than indicated in Table 5 (for flaring with R410A flare tools) to achieve the specified flaring. Use a thickness gauge to measure the dimension A.

Table 5 Pipe outside diameter				
Pipe outside	A (mm)			
diameter	Flare tool for R410A, clutch type			
6.35 mm (1/4 in.)	0 to 0.5			
9.52 mm (3/8 in.)	0 to 0.5			
12.7 mm (1/2 in.)	0 to 0.5			
15.88 mm (5/8 in.)	0 to 0.5			

2. BENDING

- (1) When bending the pipe, be careful not to crush it. (2) To prevent breaking of the pipe, avoid sharp bends. Bend the pipe with a radius of curvature of 70 mm or over.
- (3) If the copper pipe is bent or pulled to often, it will become stiff. Do not bend the pipe more than three times at one place.

3. CONNECTION

- (1) Install the outdoor unit wall cap (supplied with the optional installation set or procured at the site) to the wall pipe.
- (2) Connect the outdoor unit and indoor unit piping.(3) After matching the center of the flare surface and tightening the nut hand tight, tighten the nut to the specified tightening torque with a torque wrench. (Tighten the flare nut of the outdoor unit 3-way valve after air purging.)

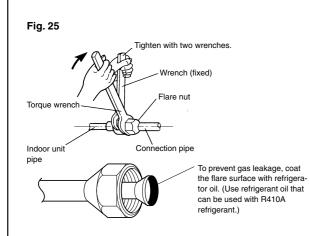


Table 6 Flare nut tightening torque

Flare nut	Tightening torque			
6.35 mm dia.	14 to 18 N·m (140 to 180 kgf·cm)			
9.52 mm dia.	33 to 42 N·m (330 to 420 kgf·cm)			
12.7 mm dia.	50 to 62 N·m (500 to 620 kgf·cm)			
15.88 mm dia.	63 to 77 N⋅m (630 to 770 kgf⋅cm)			

Do not remove the cap from the connection pipe before connecting the pipe.

ELECTRICAL WIRING) Before starting work, check that power is not being supplied to indoor unit and the outdoor unit.) Match the terminal block numbers and connection cord colors of the indoor unit and the outdoor unit. Errone ous wiring may cause burning of the electric parts.

- 3) Connect the connection cords firmly to the termina block. Imperfect installation may cause a fire. (4) Always fasten the outside covering of the connectior
- cord with the cord clamp. (If the insulator is chafed, electric leakage may occur.) (5) Always connect the ground wire.

HOW TO CONNECT WIRING

TO THE TERMINALS

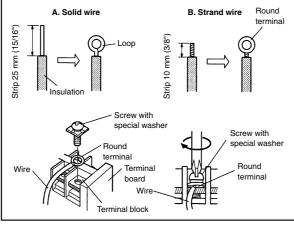
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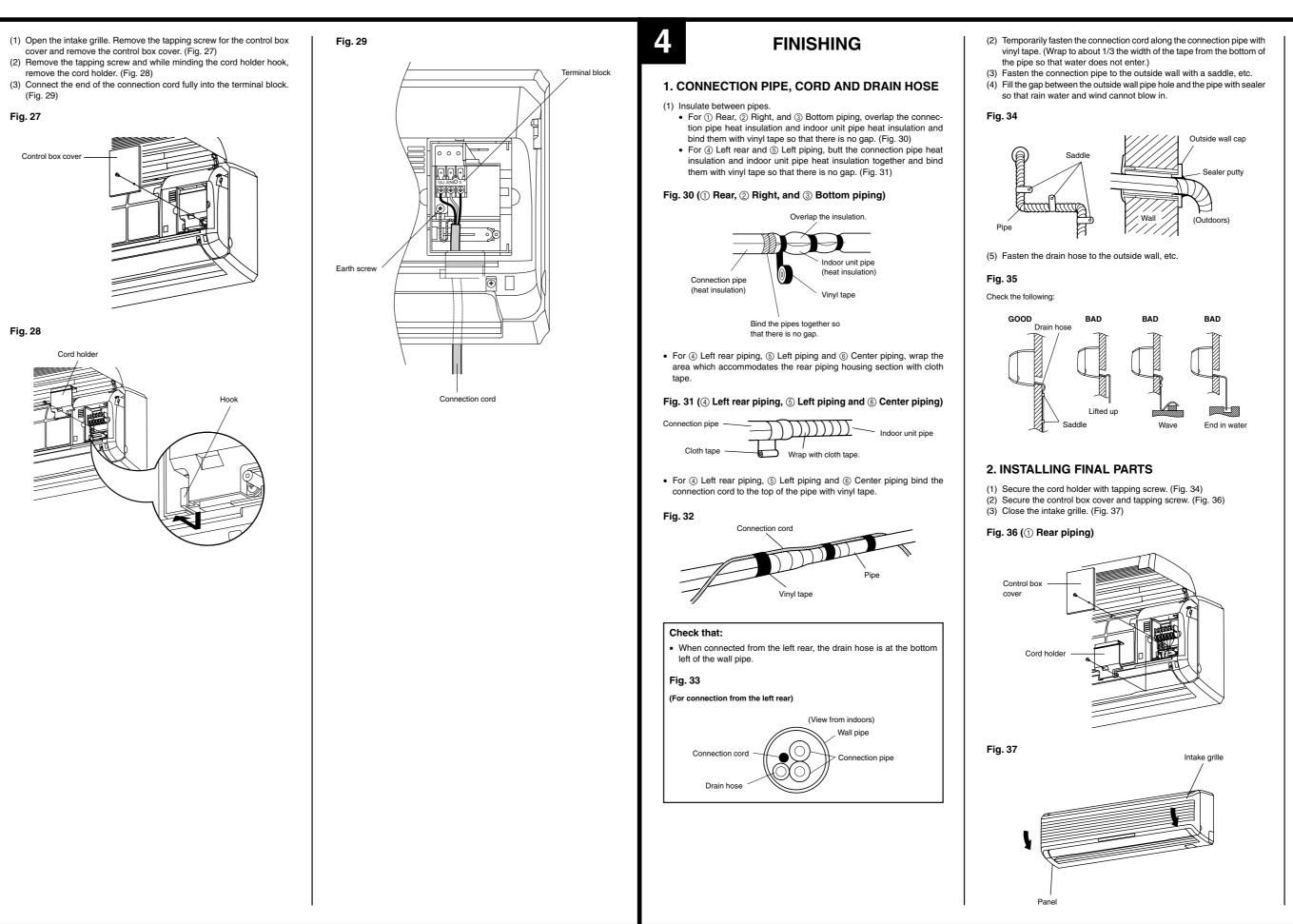
- A. For solid core wiring (or F-cable)) Cut the wire end with a wire cutter or wire-cutting pliers, then strip
- the insulation to about 25 mm (15/16") to expose the solid wire.) Using a screwdriver, remove the terminal screw(s) on the termin
- 3) Using pliers, bend the solid wire to form a loop suitable for the
- terminal screw.
-) Shape the loop wire properly, place it on the terminal board and tighten securely with the terminal screw using a screwdriver.

B. For strand wiring

-) Cut the wire end with a wire cutter or wire-cutting pliers, then strip the insulation to about 10 mm (3/8") to expose the strand wiring.
-) Using a screwdriver, remove the terminal screw(s) on the terminal
- (3) Using a round terminal fastener or pliers, securely clamp a round terminal to each stripped wire end.
- 4) Position the round terminal wire, and replace and tighten the terminal screw using a screwdriver.

Fia. 26





- manual (1) Starting and stopping method, operation switching, temperature adjustment, timer, air flow switching, and other remote control unit op-
- erations. (2) Air filter removal and cleaning, and how to use the air louvers. (3) Give the operating manual and installation instruction sheet to the customer.

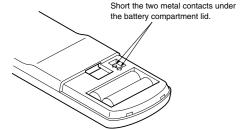
Always turn on the power 4 hours prior to the start of the operation in order to ensure compressor protection.

TEST RUNNING

- Perform test operation and check items 1 and 2 below. · For the operation method, refer to the operating manual.
- The outdoor unit may not run, depending on the room temperature In this case, the 'TEST RUN' signal is received during air conditioner operation (use a metallic object to short the two metal contacts under the battery compartment lid and send the 'TEST RUN' signal from the remote control unit).

Fig. 39

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Operation can be checked by lighting and flashing of the display section OPERATION and TIMER lamps. Perform judgement in accordance with the following.

Test running

When the air conditioner is run by pressing the remote control unit test run button, the OPERATION and TIMER lamps flash slowly at the same time.

Error

The OPERATION, TIMER and SWING lamps operate as follows (Table 7) according to the error contents.

Table 7

Error display

_	Error display		
Error contents	OPERATION (RED)		SWING
Outdoor unit piping sensor error	0	3 times	_
Outdoor unit outdoor temperature sensor error	0	• 4 times	_
Outdoor unit discharge temperature sensor error	0	• 5 times	_
Outdoor pressure switch error	0	9 times	-
Outdoor unit IPM error	0	10 times	-
Outdoor unit fan motor error	0	14 times	-
Outdoor unit 2-way valve sensor error	0	_	🔵 2 time
Outdoor unit 3-way valve sensor error	0	-	🔵 3 time
Connecting indoor unit information error	0	-	🔵 4 time
Outdoor unit circuit board error	0	-	🔵 5 time
Indoor unit room temperature sensor error	• 2 times	0	-
Indoor unit piping sensor error	3 times	Ó	_
Outdoor unit circuit board error or miss wiring between outdoor unit and indoor unit	• 5 times	0	-
Indoor unit fan motor error	6 times	0	_

CHECK ITEMS

(1) Is operation of each button on the remote control unit normal?

(2) Does each lamp light normally?

(3) Do not air flow direction louvers operate normally? (4) Is the drain normal?

(5) Is there any abnormal noise and vibration during operation?

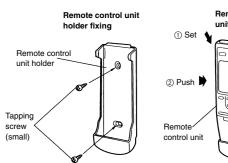
- Do not operate the air conditioner in the test running state for a long
- For the operation method, refer to the operating manual and perform operation check.

REMOTE CONTROL UNIT INSTALLATION

- 1) Check that the indoor unit correctly receives the signal from the remote control unit, then install the remote control unit holder.
- 2) Select the remote control unit holder selection site by paying careful attention to the following: Avoid places in direct sunlight.
- Select a place that will not be affected by the heat from a stove, etc.
- 1. REMOTE CONTROL UNIT HOLDER INSTALLA-TION
- · Install the remote control unit with a distance of 7 m between the remote control unit and the photocell as the criteria. However, when installing the remote control unit, check that it operates positively.
- Install the remote control unit holder to a wall, pillar, etc. with the tapping screw (Fig. 40).

Fig. 40

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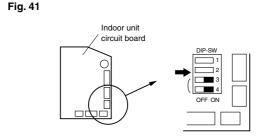
2. SWITCHING REMOTE CONTROL UNIT SIGNAL CODES

Air conditioner settings

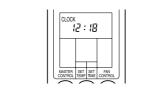
 Confirm the setting of the remote control unit signal code and the printed circuit board setting. If these are not confirmed, the remote control unit cannot be used to

operate for the air conditioner.

Table 8					
DIP	-SW	Remote control unit			
DIP-SW3	DIP-SW4	signal code			
ON	ON	A (Primary setting)			
OFF	ON	В			
ON	OFF	С			
OFF	OFF	D			

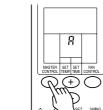


 Remote control unit settings (1) Press the START/STOP button and display only the clock.



(2) Press the MASTER CONTROL button continuously for more than five seconds to display the current signal code.

Fig. 42

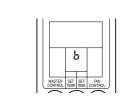


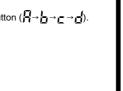
(3) Change the signal code with the (-)/(-) button (-)/(-) button (-)/(-)/(-)/(-)

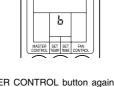


- Fig. 44



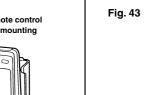






(4) Press the MASTER CONTROL button again to return to the clock display and change the signal code.

Fig. 43 Remote contro unit mounting



CUSTOMER GUIDANCE

Explain the following to the customer in accordance with the operating

